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ABSTRACT

The 1985 Computer and Television Equipment Survey was, for microcomputers, the third statewide assessment of equipment in South Carolina schools and school district offices. This report provides a comparison of data from the 2 previous years where appropriate to give educators evidence of trends for decision making in the use of technology in education. Data on the following are shown in tabular form: (1) changes in the number of computers in schools and district offices by brand; (2) changes in the number of computers in schools and district offices by use, including computer-assisted/computer-managed instruction, administrative uses, printers, and the ratio of computers to students; (3) number of instructional and administrative uses of computers by school level; (4) number of computers in schools and the ratio of computers to schools; (5) frequency of K-12 schools per number of computers from 1-2 computers to 10 or more; and (6) statewide school television, videotape recorder, and computer equipment reported by districts. (MES)

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COMPUTER AND TELEVISION EQUIPMENT REPORT FROM STATEWIDE SURVEY IN OCTOBER 1985

IR012617

South Carolina Department of Education

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COMPUTER AND TELEVISION EQUIPMENT REPORT

FROM

STATEWIDE SURVEY TAKEN OCTOBER 1985

Clyde H. Green
Director
Office of Instructional Television and Radio

Sidney B. Cooper
Deputy Superintendent
Division of Instruction

Dr. Charlie G. Williams
State Superintendent
Department of Education

April 1986

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Introduction

The 1985 Computer and Television Equipment Survey was, for microcomputers, the third statewide assessment of equipment in South Carolina schools and school district offices. A comparison of data from the two previous years is provided where appropriate to give educators evidence of trends for decision making in use of technology in education. The survey covered equipment in place for the period of September 1, 1984 through August 31, 1985.

Survey Design

The survey was conducted as a component of the Statewide Basic Education Data System (BEDS) during September and October 1985. All 1,114 schools and 92 school districts were sent survey forms.

Response Rate

The response rate for both school district office and school forms was 100 percent.

Survey Highlights

Computer Equipment:

- Total quantity of computers in our schools increased 134 percent from 6,400 in October 1984 to 14,959 in October 1985.

- The top four computers in our schools, their quantities and percent change over last year were:

Apple	8,681	(58%)
Radio Shack	1,817	(12%)
IBM	1,367	(9%)
Commodore	852	(6%)

- The availability of microcomputers for administrative purposes in schools increased by 90 percent, from 469 to 890 units; in administrative offices by 244 percent, from 150 to 516.

- The ratio of computers to students statewide improved to 1:40, compared to last year's 1:94.

- Of 14,959 school computers, 49% (7,384) are used in secondary schools and 51% or 7,575 are used in elementary schools.

- Of the 7,384 secondary school computers -

  95% are used for instruction.

  5% are used for administration.

- Of the 7,575 elementary school computers -

  94% are used for instruction.

  6% are used for administration.

- The average number of computers in schools is -

  10 per elementary school.

  25 per secondary school.

- The number of schools with computers has increased from 911 (81%) in 1984 to 1,062 (95%) in 1985.

- The number of schools with only 1 or 2 computers was:

  For 1984 - 487

  For 1985 - 281

- The number of schools with 10 or more computers was:

  For 1984 - 131

  For 1985 - 355

Television Equipment (Television Sets):

- Total TV sets in schools increased by seven percent, or from 14,510 to 15,559 units.

Television Equipment (Videotape machines [VTRs]):

- Total VTRs increased by 22 percent, or from 1,788 to 2,175 units.

1. CHANGE IN COMPUTERS IN SCHOOLS BY BRAND - I

BRAND	1985	1984	PERCENT CHANGE
APPLE	8,681	3,290	163.86%
RADIO SHACK	1,817	1,218	49.18%
IBM	1,367	247	453.44%
COMMODORE	852	561	51.87%
TEXAS INSTRUMENTS	602	575	4.70%
WICAT	424	-	-
CCC	328	-	-
ATARI	273	240	13.75%
OTHERS	615	269	129.62%
TOTALS	14,959	6,400	133.73%

OTHERS INCLUDE:		
	TANDY	109
	LANIER	91
	ZEROX	62
	DIGITAL	52
	SONY	45
	SPERRY	39
	FRANKLIN ACE	39
	MONROE	33
	ZENITH	30
	KAPRO	27
	COLUMBIA	20
	BURROUGHS	12
	NIDORF	11
	NCR	7
	TERAK	5
	TELEVIDEO	4
	COMPAC PLUS	4
	SANYO	3
	CONTROL DATA	3
	AT & T	2
	TIMEX	2
	VIDEO	2
	SCOIS	2
	HAYES	2
	DIGITAC	2
	EPSON	2
	ADAM	1
	AMDEC	1
	NEC	1
	MINDSET	1
	DYNAX	1
	TOTAL	615

2. CHANGE IN COMPUTERS IN SCHOOLS BY BRAND - II

BRAND	1985	1984	PERCENT OF ALL COMPUTERS
APPLE	8,681	3,290	58%
RADIO SHACK	1,817	1,218	12%
IBM	1,367	247	9%
COMMODORE	852	561	6%
TEXAS INSTRUMENTS	602	575	4%
WICAT	424	-	3%
CCC	328	-	2%
ATARI	273	240	2%
OTHERS	615	269	4%
TOTALS	14,959	6,400	

3. CHANGE IN COMPUTERS IN DISTRICT OFFICES BY BRAND - I

BRAND	1985	1984	PERCENT CHANGE
APPLES	292	45	220%
IBM	232	59	293%
RADIO SHACK	48	39	23%
COMMODORE	16	9	78%
ZENITH	13	0	
SPERRY	11	0	
NCR	10	3	233%
BURROUGHS	9	4	125%
DIGITAL	5	0	
TI	0	5	
OTHERS	20	24	-17%
TOTAL	656	234	

4. CHANGE IN COMPUTERS IN DISTRICT OFFICES BY BRAND - II

BRAND	1985	PERCENT OF ALL
APPLES	292	45%
IBM	232	35%
RADIO SHACK	48	7%
COMMODORE	16	2%
ZENITH	13	2%
SPERRY	11	2%
NCR	10	2%
BURROUGHS	9	1%
DIGITAL	5	1%
OTHERS	20	3%
TOTAL	656	

5. CHANGE IN COMPUTERS IN SCHOOLS BY USE

	1985	1984	PERCENT CHANGE
TOTAL COMPUTERS	14,959	6,400	+133.73%
CAI/CMI	14,122	5,990	+135.76%
ADMIN	890	469	+ 89.77%
PRINTERS	3,875	1,658	+133.72%

RATIO OF COMPUTERS TO STUDENTS: 1:40

6. CHANGE IN COMPUTERS IN DISTRICT OFFICES BY USE

	1985	1984	PERCENT CHANGE
TOTAL COMPUTERS	656	234	+180.34%
CAI/CMI	163	71	+129.58%
ADMIN	516	150	+244.00%
PRINTERS	520	174	+198.85%

Table 7. Instructional and Administrative Uses of School Computers

School Level	Total Computers	Instructional Use (CAI/CMI)		Administrative Use		Printers	
		Quantity	% of Total	Quantity	% of Total	Quantity	% of Total
Elementary	7,575	7,131	94.1%	488	6.4%	1,581	41.0%
Secondary	7,384	6,991	94.7%	402	5.4%	2,294	59.2%
Total	14,959	14,121	94.4%	890	5.9%	3,875	100.0%

Table 8. Number of Computers in Schools

	Number Computers		% of Total Computers		Number Schools With Computers		Ratio of Computers to Schools	
	1985	1983	1985	1983	1985	1983	1985	1983
Elementary	7,575	1,928	50.6%	47.6%	761	--	10.0/ School	--
Secondary	7,384	2,122	49.4%	52.4%	301	--	24.5/	--
Total	14,959	4,050			1,062	749	14.1/ School	5.4/ School
Percent of Schools with Computers:					95.3%	66.6%		

Table 9. Frequency of K-12 Schools per Number of Computers

Number of Computers Per School	Number of Schools With Indicated Number of Computers 1985	1984	Percent of Schools 1985	1984
1	177	333	17%	37%
2	104	154	10%	17%
3	90	75	8%	8%
4	76	70	7%	8%
5	61	44	6%	5%
6	61	31	6%	3%
7	52	36	5%	4%
8	47	20	4%	2%
9	39	17	4%	2%
10	44	23	4%	3%
11	40	18	4%	2%
12	29	18	3%	2%
13	20	8	2%	1%
14	20	11	2%	1%
15	26	9	2%	1%
16	24	5	2%	1%
17	22	9	2%	1%
18	17	6	2%	1%
19	9	7	1%	1%
20	21	4	2%	0
21+	83	13	8%	1%
Total Computers	1,062	911		

	1985	1984
Number of Schools Having 1 to 2 Computers:	282	487
Number of Schools With 10 or More Computers:	311	131

10.

OFFICE OF INSTRUCTIONAL TECHNOLOGY
STATEWIDE TELEVISION, VIDEOTAPE RECORDER AND COMPUTER EQUIPMENT REPORTS
BY DISTRICTS FOR 1985

COUNTY	AREA OR DIST	TOTAL TV SETS 1985	1984	B/W TVS	COLOR TVS	TOTAL VTRS/VCRS 1985	1984	B/W VTRS/VCR	COLOR VTRS/VCR	TOTAL COMPUTERS 1985	1984
ABBEVILLE	60	117	115	82	35	10	7	0	10	110	24
AIKEN	01	699	654	331	368	81	65	5	76	653	462
ALLENDALE	00	1	0	1	0	0	0	0	0	13	9
	01	92	91	49	43	9	10	0	9	28	6
ANDERSON	00	1	2	0	1	1	1	0	1	24	22
	01	129	121	73	56	14	12	0	14	133	79
	02	69	80	10	59	19	17	0	19	44	7
	03	33	35	1	32	10	5	0	10	42	7
	04	44	45	20	124	8	9	0	8	47	34
	05	169	152	34	135	37	30	0	37	203	72
BAMBERG	01	66	64	25	41	8	7	0	8	38	18
	02	57	62	28	29	5	4	0	5	30	14
BARNWELL	00	3	1	0	3	3	1	0	3	11	7
	19	61	60	6	55	4	4	0	4	67	51
	29	55	53	12	43	4	3	0	4	55	7
	45	69	54	4	65	7	6	0	7	51	11
BEAUFORT	00	20	17	0	20	4	4	0	4	4	4
	01	287	263	28	259	46	42	0	46	241	176
BERKELEY	01	302	274	83	219	61	61	2	59	423	196
CALHOUN	01	47	39	25	22	6	4	0	6	18	12
CHARLESTON	01	1293	1108	818	475	121	101	3	119	1,274	411
CHEROKEE	01	117	115	28	89	36	28	1	35	300	96
CHESTER	01	91	85	32	59	27	24	1	26	151	42
CHESTERFIELD	01	311	247	139	172	42	34	0	43	333	117

STATEWIDE TELEVISION, VIDEOTAPE RECORDER AND COMPUTER EQUIPMENT REPORTS
BY DISTRICTS FOR 1985

COUNTY	AREA OR DIST	TOTAL TV SETS 1985	TOTAL TV SETS 1984	B/W TVS	COLOR TVS	TOTAL VTRS/VCRS 1985	TOTAL VTRS/VCRS 1984	B/W VTRS/VCR	COLOR VTRS/VCR	TOTAL COMPUTERS 1985	TOTAL COMPUTERS 1984
CLARENDON	00	1	1	0	1	1	1	0	1	35	13
	01	29	28	20	9	3	4	0	3	28	8
	02	14	11	0	14	6	3	0	6	94	37
	03	17	5	7	10	3	2	0	3	23	11
COLLETON	01	154	136	48	106	20	19	0	20	111	76
DARLINGTON	01	479	476	246	233	52	39	2	50	253	93
DILLON	00	2	2	1	1	1	1	0	1	22	0
	01	39	42	13	26	4	4	0	4	15	10
	02	145	147	70	75	15	15	0	15	106	11
	03	67	66	37	30	8	7	0	8	53	39
DORCHESTER	00	3	2	1	2	2	1	0	2	11	3
	01	53	56	41	12	5	5	0	5	17	7
	02	270	197	56	214	40	33	0	40	191	100
	03	15	14	2	13	4	3	0	4	8	0
EDGEFIELD	01	84	90	62	22	12	10	0	12	241	106
FAIRFIELD	01	81	70	57	24	8	4	0	8	75	48
FLORENCE	01	449	400	178	271	41	32	1	40	169	113
	02	50	51	29	21	5	5	0	5	31	16
	03	92	93	37	55	5	4	0	5	170	41
	04	35	37	17	18	3	3	0	3	33	11
	05	32	25	13	19	5	2	0	5	38	28
GEORGETOWN	01	260	228	21	239	43	29	0	43	216	87
GREENVILLE	01	1724	1683	1166	558	148	120	18	130	923	537

STATEWIDE TELEVISION, VIDEOTAPE RECORDER AND COMPUTER EQUIPMENT REPORTS
BY DISTRICTS FOR 1985

COUNTY	AREA OR DIST	TOTAL TV SETS 1985	TOTAL TV SETS 1984	B/W TVS	COLOR TVS	TOTAL VTRS/VCRS 1985	TOTAL VTRS/VCRS 1984	B/W VTRS/VCR	COLOR VTRS/VCR	TOTAL COMPUTERS 1985	TOTAL COMPUTERS 1984
GREENWOOD	00	1	2	0	1	1	0	0	1	21	1
	50	304	311	70	234	22	22	0	22	147	104
	51	43	39	26	17	5	6	0	5	35	14
	52	33	32	2	31	8	6	1	7	38	6
HAMPTON	01	117	102	15	102	12	9	0	12	81	11
	02	36	34	14	22	8	4	0	8	91	7
HORRY	01	361	346	116	245	71	50	0	71	588	194
JASPER	01	44	39	10	34	7	9	1	6	43	6
KERSHAW	01	139	160	38	101	28	31	0	28	241	60
LANCASTER	01	178	157	36	142	33	28	0	33	261	93
LAURENS	55	135	138	8	127	33	30	0	33	81	54
	56	103	101	18	85	24	19	2	22	81	39
LEE	01	122	119	39	83	18	14	1	17	196	24
LEXINGTON	01	126	114	4	122	33	28	0	33	173	82
	02	233	204	34	199	38	33	1	37	290	130
	03	33	27	4	29	19	15	0	19	52	17
	04	98	72	39	59	12	11	0	12	57	56
	05	209	194	48	161	48	41	1	47	315	142
MCCORMICK	01	50	43	25	25	6	3	0	6	60	17
MARION	00	5	5	1	4	5	5	1	4	28	25
	01	130	122	31	99	23	19	0	23	88	37
	02	50	53	28	22	6	6	0	6	120	21
	03	15	16	2	13	3	2	0	3	25	15
	04	14	14	12	2	2	2	0	2	26	23
MARLBORO	01	141	130	98	43	14	13	0	14	283	35

STATEWIDE TELEVISION, VIDEOTAPE RECORDER AND COMPUTER EQUIPMENT REPORTS
BY DISTRICTS FOR 1985

COUNTY	AREA OR DIST	TOTAL TV SETS 1985	TOTAL TV SETS 1984	B/W TVS	COLOR TVS	TOTAL VTRS/VCRS 1985	TOTAL VTRS/VCRS 1984	B/W VTRS/VCR	COLOR VTRS/VCR	TOTAL COMPUTERS 1985	TOTAL COMPUTERS 1984
NEWBERRY	01	96	75	43	53	22	10	0	22	86	44
OCONEE	01	217	207	152	65	34	25	2	32	254	127
ORANGEBURG	00	2	2	1	1	2	2	1	1	31	16
	01	23	26	16	7	5	3	0	5	28	8
	02	16	16	5	11	2	2	1	1	46	20
	03	57	57	27	30	11	9	1	10	44	8
	04	18	26	7	11	4	3	0	4	38	9
	05	50	66	22	28	19	19	1	18	61	50
	06	15	23	6	9	4	4	0	4	13	11
	07	8	4	0	8	6	0	0	6	33	19
	08	9	11	7	2	2	1	0	2	32	1
PICKENS	01	366	346	178	188	57	47	1	56	233	114
RICHLAND	01	922	899	266	656	116	102	4	112	640	256
	02	252	255	114	138	41	34	0	41	213	108
SALUDA	01	37	38	17	20	8	7	0	8	43	27
SPARTANBURG	00	9	9	1	8	9	6	0	9	69	52
	01	127	116	35	92	21	16	0	21	111	73
	02	201	180	102	99	32	21	0	32	80	59
	03	123	116	19	104	17	17	0	17	94	48
	04	79	39	2	77	10	8	0	10	94	22
	05	96	75	22	74	19	11	0	19	106	27
	06	244	218	144	100	30	26	3	27	189	58
	07	423	394	165	258	20	19	0	20	214	89

STATEWIDE TELEVISION, VIDEOTAPE RECORDER AND COMPUTER EQUIPMENT REPORTS
BY DISTRICTS FOR 1985

COUNTY	AREA OR DIST	TOTAL TV SETS 1985	TOTAL TV SETS 1984	B/W TVS	COLOR TVS	TOTAL VTRS/VCRS 1985	TOTAL VTRS/VCRS 1984	B/W VTRS/VCR	COLOR VTRS/VCR	TOTAL COMPUTERS 1985	TOTAL COMPUTERS 1984
SUMTER	00	1	1	0	1	1	1	0	1	2	0
	02	141	130	8	133	32	27	0	32	461	42
	17	212	205	51	161	27	25	0	27	111	84
UNION	01	145	137	59	86	16	13	0	16	182	124
WILLIAMSBURG	01	142	82	38	104	37	12	0	37	226	99
YORK	01	65	66	27	38	14	14	0	14	89	34
	02	68	69	31	37	15	13	0	15	83	44
	03	389	395	29	360	38	33	1	37	286	172
	04	36	29	3	33	10	9	0	10	108	47
OTHER	52	22	27	12	10	16	18	1	15	82	16
TOTALS		15,559	14,410	6,278	9,281	2,175	1,788	57	2,118	15,959	6,400